



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 22 75 95 31

Classification of the application (IPC):
G06F 21/55, H04L 67/12, H04L 9/40, H04L 12/40

Technical fields searched (IPC):
H04L, G06F

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 2019306180 A1 (DYAKIN PAVEL V [RU] ET AL) 03 October 2019 (2019-10-03) * paragraph [0021] - paragraph [0121] *	1-12
A	EP 3393086 A1 (PANASONIC IP CORP AMERICA [US]) 24 October 2018 (2018-10-24) * paragraph [0002] - paragraph [0159] *	1-12
A	JP 2010152773 A (MITSUBISHI ELECTRIC CORP) 08 July 2010 (2010-07-08) * paragraph [0002] - paragraph [0068] *	1-12
A	WO 2020075808 A1 (NIPPON TELEGRAPH & TELEPHONE [JP]) 16 April 2020 (2020-04-16) * paragraph [0002] - paragraph [0100] *	1-12

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 04 November 2024	Examiner Dang, Hoai
---------------------------	--	------------------------

CATEGORY OF CITED DOCUMENTS

- | | |
|---|--|
| X: particularly relevant if taken alone | P: intermediate document |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention |
| A: technological background | E: earlier patent document, but published on, or after the filing date |
| O: non-written disclosure | D: document cited in the application |
| & : member of the same patent family, corresponding document | L: document cited for other reasons |

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.



ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 22 75 95 31

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 04-11-2024
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2019306180 A1	03-10-2019	CN 110324301 A	11-10-2019
		JP 6807906 B2	06-01-2021
		JP 2019194830 A	07-11-2019
		RU 2018111478 A	30-09-2019
		US 2019306180 A1	03-10-2019
EP 3393086 A1	24-10-2018	CN 107925600 A	17-04-2018
		EP 3393086 A1	24-10-2018
		EP 3621246 A1	11-03-2020
		JP 6423402 B2	14-11-2018
		JP 6908563 B2	28-07-2021
		JP 7197638 B2	27-12-2022
		JP 2017111796 A	22-06-2017
		JP 2018190465 A	29-11-2018
		JP 2021152977 A	30-09-2021
		US 2018295147 A1	11-10-2018
		US 2020396238 A1	17-12-2020
JP 2010152773 A	08-07-2010	JP 5264470 B2	14-08-2013
		JP 2010152773 A	08-07-2010
WO 2020075808 A1	16-04-2020	CN 112823339 A	18-05-2021
		EP 3848806 A1	14-07-2021
		JP 7176569 B2	22-11-2022
		JP WO2020075808 A1	02-09-2021
		US 2021377289 A1	02-12-2021
		WO 2020075808 A1	16-04-2020